

## ABSTRACT

In the transmission and reception of a medium signal, a device in accordance with the present invention reduces a medium signal deterioration generated by a data loss, caused by a bandwidth fluctuation in a wired IP network or a wireless network or by a wireless handover, and minimizes an increase in the amount of processing that is required for the signal deterioration. In a bidirectional medium transmission and reception, the reception side has a control unit 108 that monitors a storage amount of a buffer 111 in which a medium signal obtained by decoding a stream by a decoder 112 is stored, and transmits a control signal to a transmission line if the storage amount of the buffer exceeds or falls below a predetermined threshold, and the transmission side has a control unit 102 that encodes a medium signal and outputs a stream and, if a control signal is received from the transmission line, changes the compression rate of an encoder 104.